

## **SYNTHETIC MATERIAL DISPERSIONS**

### **ABSTRACT OF THE DISCLOSURE**

The invention relates to synthetic material dispersions consisting of (a) an aqueous phase of solutions of hydrophilic melamine resin precondensates and a latent hardening catalyst in water or in mixtures of water and alcohols C<sub>1</sub>-C<sub>6</sub>, (b) an organic nanophase in the form of nanometric droplets and/or nanoparticles derived from 70-99% of the melamine resin precondensates which are insoluble in water and etherifieds and contain hardening acid catalysts and acid impermeability agents, (c) dispersion agents at a concentration of 1-10 mass % in relation to the total mass of the melamine resin precondensates. The synthetic material dispersions are used for producing flat coated products which are externally used in the form of laminates, of coated flat carrying materials or moulded coated bodies for construction or for sports and recreation.